

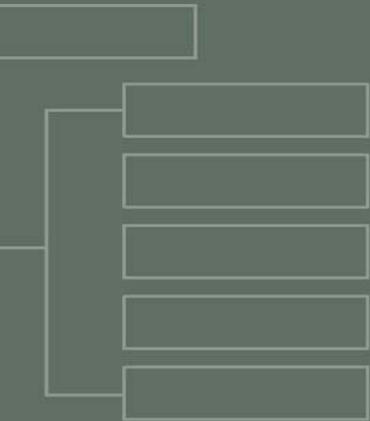
# Using Registries to Promote Collaborative Standards Work

Open Forum on Metadata Registries  
Santa Fe, January 2003

Karl Best  
OASIS Vice President

# Overview

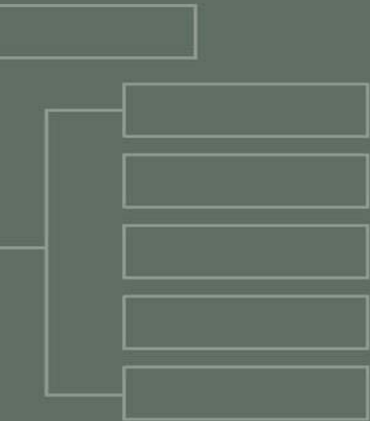
- **OASIS is a member-led consortium dedicated to building systems interoperability specifications**
  - Member-elected Board of Directors and Technical Advisory Board
  - Member-driven standards process
- **We focus on industry applications of structured information standards such as XML**
- **Members of OASIS are providers, users and specialists of standards-based technologies and include organizations, individuals, and industry groups.**
- **International, not-for-profit, open, independent**
- **Successful through industry-wide collaboration**



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# OASIS technical agenda

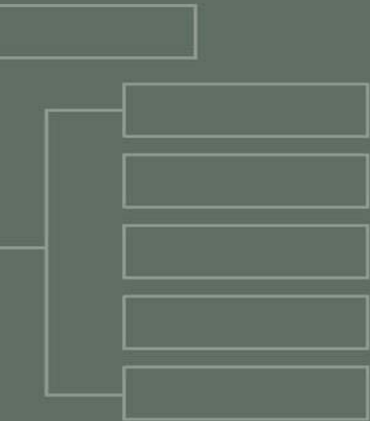
- The OASIS technical agenda is set by our members; bottom-up approach
- Technical committees formed by the proposal of our members
- Each TC sets its own scope, schedule, and deliverables



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# OASIS technical work

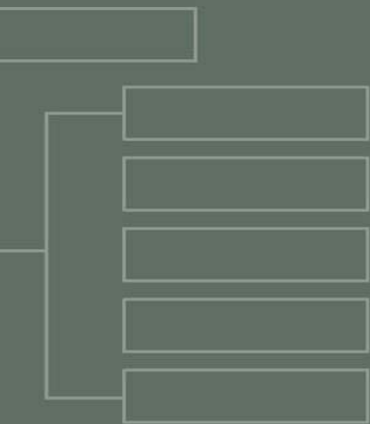
- ~50 Technical Committees in a variety of topic areas
  - E-business
  - Security
  - Web services
  - Public sector
  - etc.



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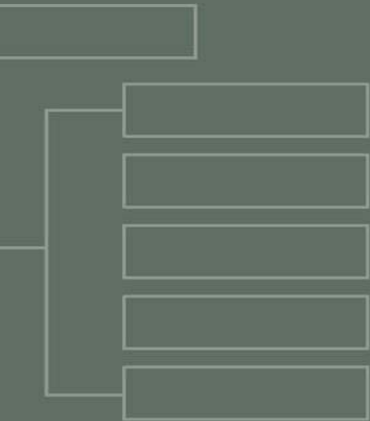
# Registries at OASIS

- **Two OASIS technical committees creating specifications for registries**
  - ebXML Registry
  - UDDI Spec
- **Applications of registry spec**
  - XML.org Registry (June 2000)
  - OASIS Registry (upcoming)



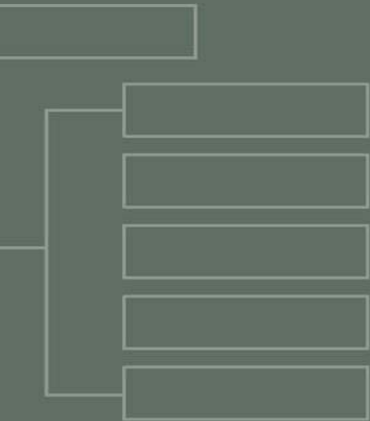
# OASIS relationships

- **Attempt to cooperate and liaise with other standards organizations wherever possible**
  - No one organization can do it all
  - Pros, cons of various processes, IPR policies
  - Prevent duplication, promote interoperability of specs
  - Gain additional sanction/authority for OASIS work



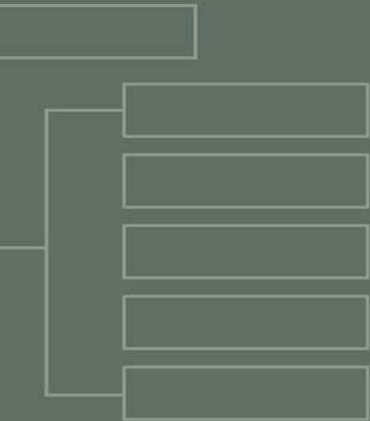
# OASIS relationships (cont.)

- **Working relationships with**
  - W3C, OMG, IDEAlliance, OAG, CommerceNet, LISA, etc.
- **Formal relationships with**
  - ISO/IEC/ITU/UNECE Memorandum of Understanding (MoU) for E-Business
  - ISO TC154, e-business standards (Category A Liaison)
  - ISO/IEC JTC1 SC34, markup languages (Category A Liaison)
  - ISO/IEC JTC1 SC6, security (Category A Liaison)
  - ITU-T A.4 and A.5 Recognition



# Interoperability Summit

- **Co-sponsored with OMG, HR-XML, XBRL**
- **December 2001 and June 2002, Orlando**
- **Discussion of how to promote interoperability between work done at standards orgs**

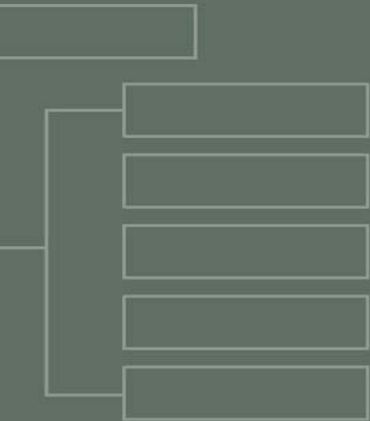


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# Interop Summit, Dec 2001: Barriers to Interoperability

- **Turf battles / “Not Invented Here”**
- **Scope and process differences**
- **Different technical models and architectures**
- **Lack of common vocabulary**
- **Information sharing**



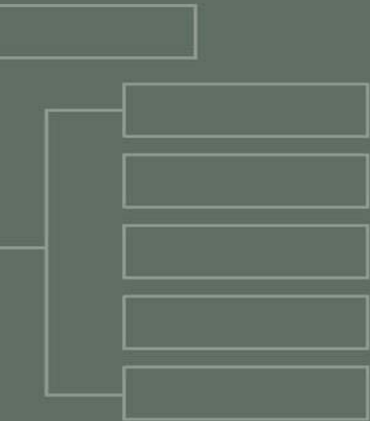
# Ideal(istic) Solutions?

- A single standards organization?
- An umbrella organization?
- Defined and agreed-upon scope/territory for each standards organization?
- A single liaison policy/process for all organizations?

(None of these are going to happen)

# Best practical solution

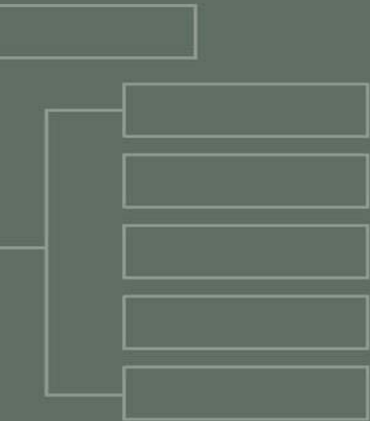
- **Information Sharing**
  - Sharing information about each organizations' work
  - Then, each organization can identify overlaps and areas for collaboration, negotiate specific relationships
- **Common Vocabulary**
  - Shared glossary of terminology
  - Each org contribute and own their own terms, but share with others



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## Scenario #1:

- As a standards organization manager or participant, I suspect that other organizations are doing work similar to that done by some of my technical committees
- My organization or committee can't create all specifications, but I want to know that everything is being done, somewhere



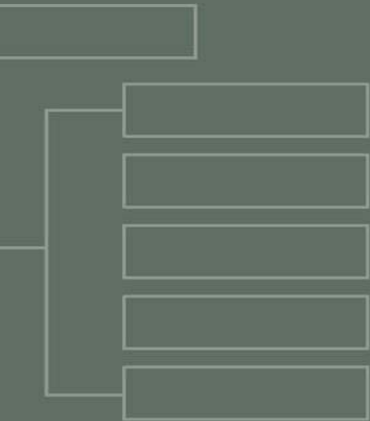
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## Scenario #2:

- As a developer or engineering manager, I suspect that a standard has been developed for a certain topic, but I'm not sure where to go to get it
- I suspect that a standard is being developed, and I want to be involved as it effects the products I am developing

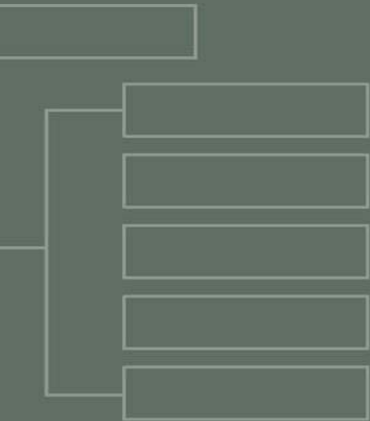
## Scenario #3:

- I'm developing a specification, but I can't tell if the work is the same as another organization's because the terminology used is different
- I'm implementing a variety of specifications, but they each use the same terms in different ways



# The problem:

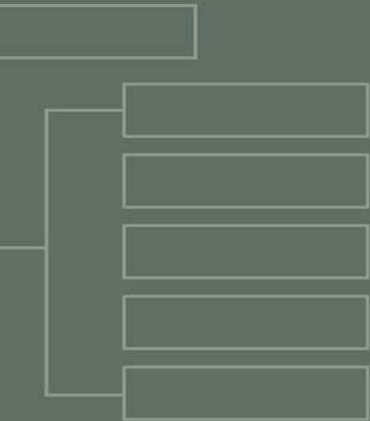
- Where can I find out who is doing what?
  - What standards groups are developing what specifications?
  - Web searches don't give useful results because everyone describes their work differently
- How can I easily compare how different organizations use different terms?



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# The solution:

- A means of discovering and identifying what work each standards group is doing, and what terminology they use and how



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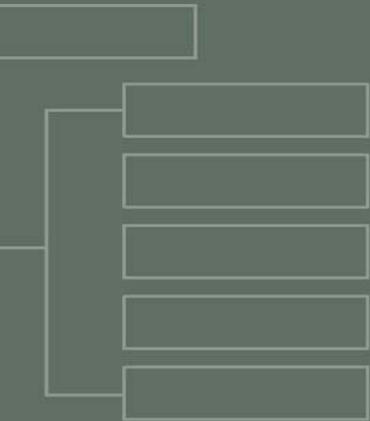


# The goal:

- **For standards developers**
  - Promote collaborative standards work
  - Promote interoperable specifications
  - Prevent overlap or duplicative work
  - Promote involvement of all interested parties
  - Promote consistent use of terminology
- **For standards users**
  - Promote involvement of all interested parties in standards development process
  - Promote use of and adherence to standards by vendors
  - Promote understanding of specifications

# A phased approach

- **Phase 1: develop a common metadata for describing standards efforts**
- **Phase 2: a single organization registry**
- **Phase 3: multi-organizational or linked registries**



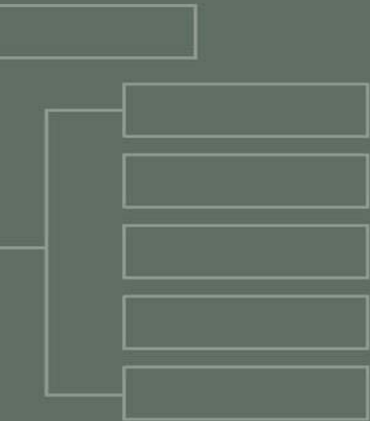
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# Phase 1: The Standards Registry Committee

- Develop metadata for a registry of standards efforts; standard description of SDO work
- Ad hoc committee; not under any organization's process
- First meeting February 2002; spec currently in public review
- Officers: Karl Best (OASIS), chair; John Ketchell (CEN/ISSS), secretariat; Bob Hager (ANSI), editor
- <http://www.ansi.org/Public/Stdsreg/stdsreg.html>

# What this is not...

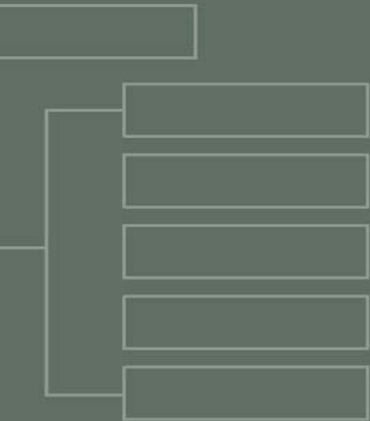
- Repository of the documents themselves (specifications, schemas, business objects, etc.)
- Initiative to build registries
  - Instead, urge SDOs and owners of existing registries to use the metadata



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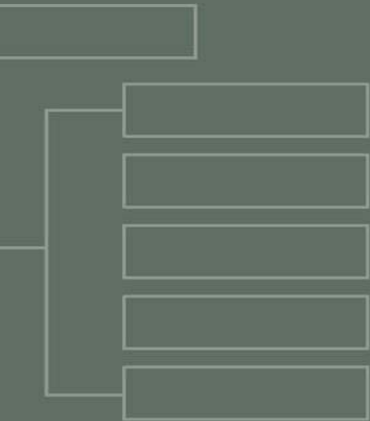
# StdReg Metadata

- **Common metadata for each entry**
  - Name, status, owner, etc.
  - Relationship with other work
- **Consistent description for better search results**
- **Spec available at**  
[http://www.ansi.org/rooms/room\\_5/public/pdf/StandardsRegMetadataDef.pdf](http://www.ansi.org/rooms/room_5/public/pdf/StandardsRegMetadataDef.pdf)



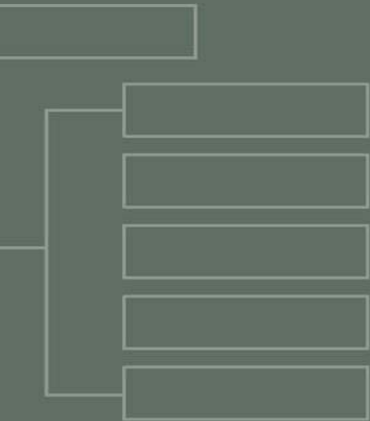
# StdReg Metadata Goals

- **Simplicity:** fewest elements possible to adequately describe information
- **Flexibility:** ability to describe wide range of SDOs' work
- **Leverage existing metadata standards including**
  - **Dublin Core, ISO ISONET, OASIS DocBook, ANSI NSSN, Diffuse.org, NIST Standards Roadmap**



# StdReg Metadata Spec v3.0

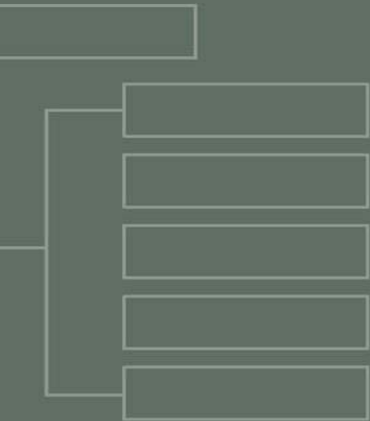
- **16 elements**
  - Significantly harmonized with Dublin Core Metadata Set v1.1
- **10 attributes per element**
  - Some attributes from Dublin Core v1.1, partially based on ISO 11179-3
  - 7 vary by element, 3 common to all



# StdReg Specification Summary

- **Element Names**

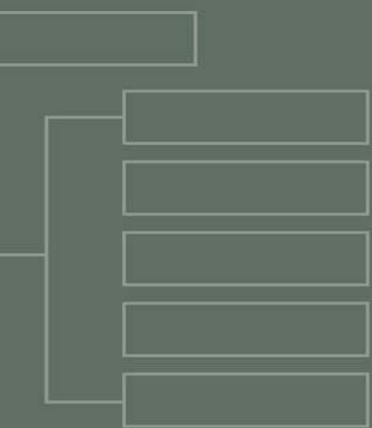
- Designation
- Title
- Description
- Identifier
- Name of SDO
- SDO Committee
- SDO Information
- Subject
- Current Status
- Date of Most Recent Action
- Referenced Standards
- Replaces
- Related Resources
- Format
- Language
- Rights Management





# StdReg Specification Summary

- **Attribute Names**
  - **Name**
  - **Identifier**
  - **Definition**
  - **Comment**
  - **Datatype**
  - **Obligation**
  - **Max Occurence**

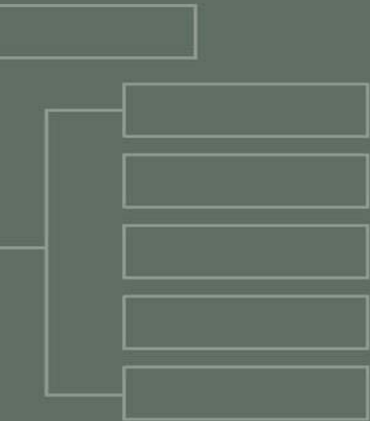


# StdReg Public Review

- September – December 2002; collecting last comments now
- Sent to ~1000 SDOs affiliated with ANSI, NIST, and CEN/ISSS
- Questions:
  - Is this sufficient to describe your work?
  - Elements missing? Too many or too few?
  - Definitions clear?
  - Potential usage problems?

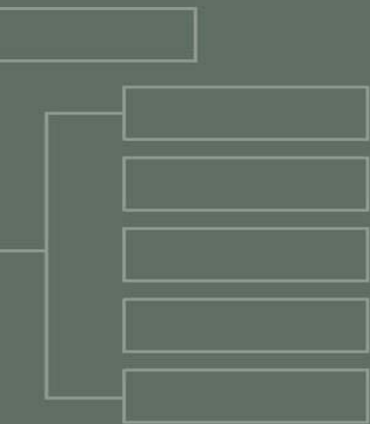
# StdReg Next Steps

- **Submission to JTC1/SC32; introduced at Oct 2002 Plenary; proposal for new work item**
  - StdReg editor (Bob Hager, ANSI) will attend SC32 meeting next week
- **Proposed implementations by OASIS, ANSI, and CEN/ISSS**
- **StdReg Committee will continue; goal is to encourage SDO implementation of metadata, coordination of efforts**



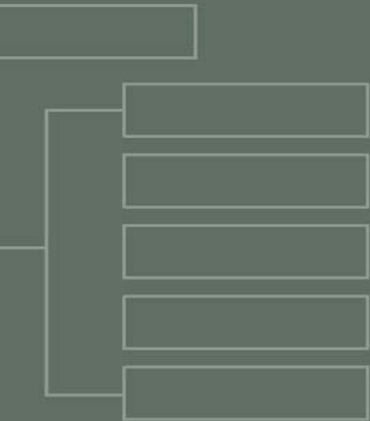
## Phase 2: OASIS Registry

- **Current XML.org Registry launched June 2000; registry and repository for XML schemas**
- **Planning for new registry to promote collaborative work**
  - **Information about OASIS TC work, using StdsReg metadata**
  - **Glossary of common terminology**

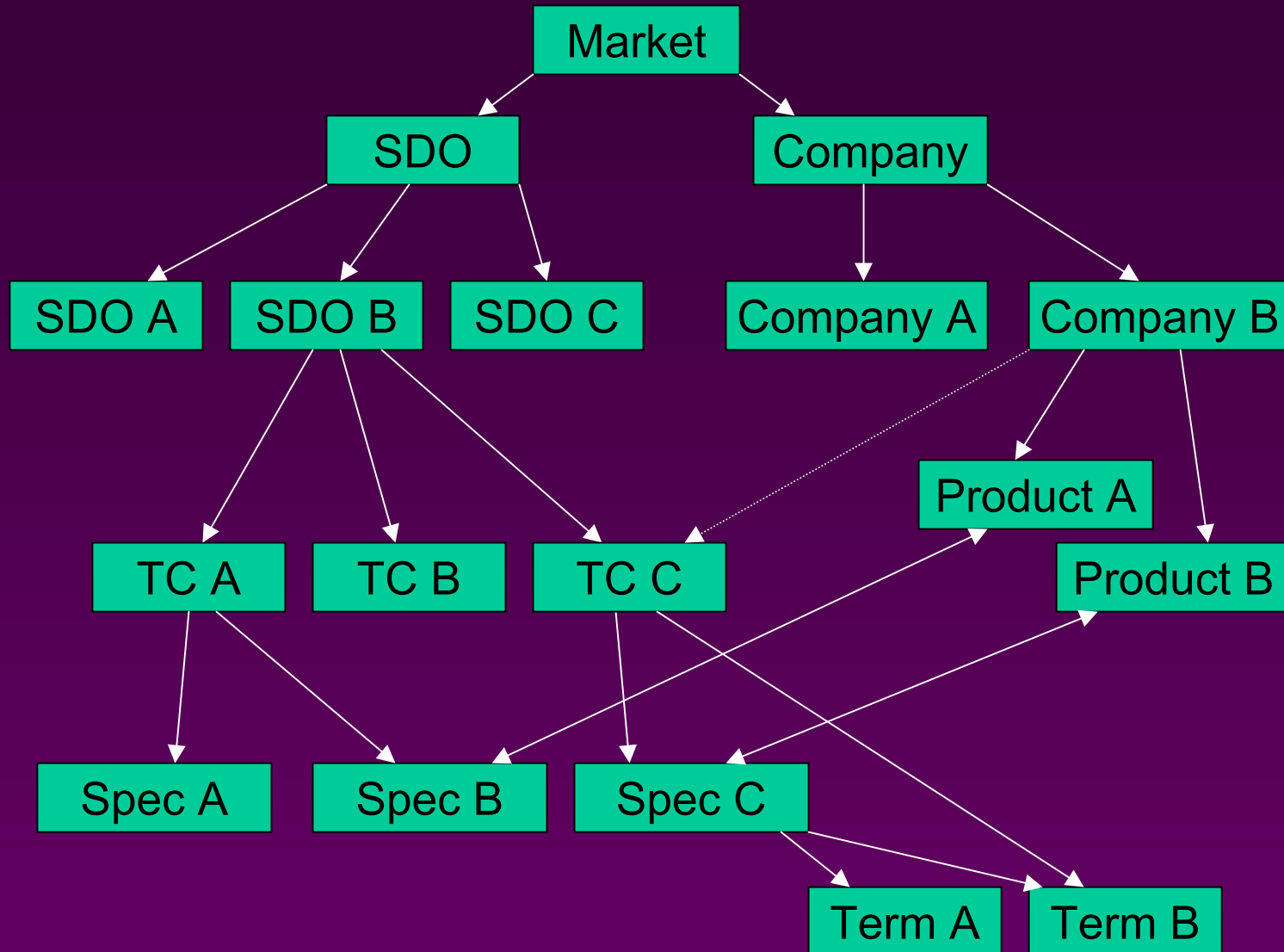


# Scope of OASIS Registry

- Initially just OASIS TCs; future phase will include other orgs' work
- What are TCs doing: scope, schedule, status of deliverables (using StdReg metadata)
- Repository of specifications
- Glossary of terms; promote consistent use of terminology

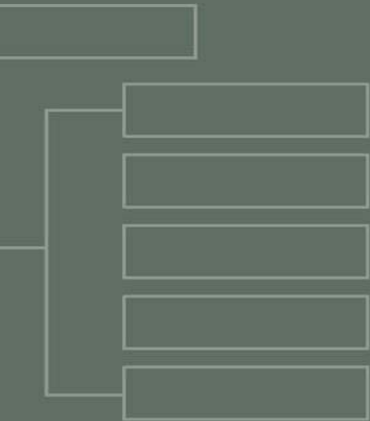


# OASIS Registry Hierarchy



# Schedule for OASIS registry

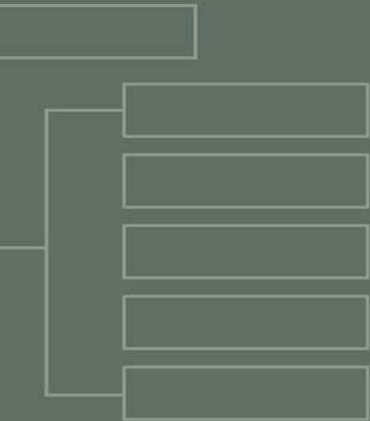
- Has been internally prototyped
- RFP to OASIS members to provide software, development assistance
- Launch date targeted for Q2
- Open to other orgs later in 2003?



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## Phase 3: Other organizations

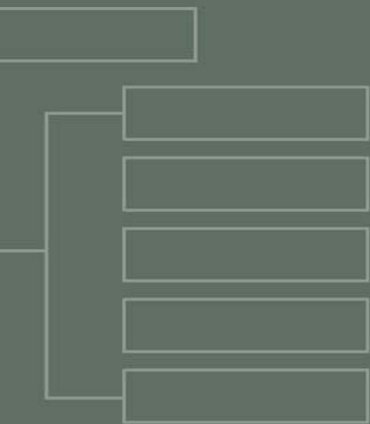
- Open the OASIS Registry to other organizations who will maintain their own data
- Promote the adoption of the standard metadata with other organizations, both those who do and don't already publish their information
- Federated registries; single search across multiple registries





# Next Steps

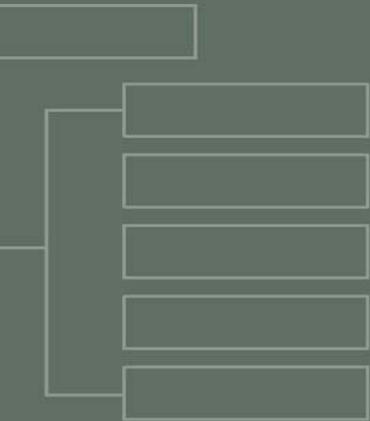
- **Sponsorship assistance for development of initial OASIS registry**
- **Need mechanism for linking registries (federation) for Phase 3**



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# For more information...

- [www.oasis-open.org](http://www.oasis-open.org)
- [www.xml.org](http://www.xml.org)
- [www.ansi.org/Public/Stdreg/stdsreg.html](http://www.ansi.org/Public/Stdreg/stdsreg.html)
- [www.oasis-open.org/documents/registry\\_rfp.pdf](http://www.oasis-open.org/documents/registry_rfp.pdf)
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